

Attorney Docket No. 16NM99181
Application No. 09/914,631

CLAIM AMENDMENTS

Claims 1 to 3 (canceled)

4 (previously amended). A magnetic resonance imaging device comprising:
means for signal acquisition that acquires a magnetic resonance signal;
a space accommodating a subject for imaging;
a fluid motor rotating by fluid flow and disposed adjacent to the space;

and

rotating vanes driven by the fluid motor and forcing air into the space,
wherein the fluid motor and the rotating vanes do not cause electrical interference with
the device.

5 (previously amended). The device of claim 4 comprising:

means for adjustment for adjusting fluid flow quantity supplied to the
fluid motor.

6 (original). The device of claim 4 comprising:

means for adjustment for adjusting ratio of fluid flow quantity supplied to
the fluid motor to fluid flow quantity bypassing the fluid motor.

7 (original).

The device of claim 4 wherein the means for signal
acquisition has a section to be cooled by fluid, and the fluid motor is driven by fluid to
cool the section.

Claims 8 to 15 (canceled)

16 (previously added).

The device according to claim 4 wherein the
rotating vanes are disposed above the subject.

17 (previously added).

The device according to claim 4 comprising:
means for supporting the subject in the space; and
means for adjusting a position of the means for support.

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18 (previously added). The device according to claim 4 comprising:
means for positioning the subject in the space in a substantially vertical
position.

19 (previously added). The device according to claim 4 comprising:
means for positioning the subject in the space in a substantially horizontal
position.

20 (previously added). The device according to claim 18 wherein the
rotating vanes are aligned substantially vertically with the subject.

21 (previously added). The device according to claim 18 wherein the
rotating vanes are aligned substantially horizontally with the subject.

22 (currently amended). A magnetic resonance imaging system comprising:
a magnet system having a space for positioning a subject therein;
means for acquiring a magnetic resonance signal;
means for providing a flow of air into the space, the means being made
from a non-magnetic or non-metallic material that avoids interference with the magnet
system or the means for acquiring a magnetic resonance signal, the means providing air
flow disposed externally of the magnet system and applied externally to the subject; and
means for adjusting the position of the subject in the magnet system.

23 (previously added) The system according to claim 22 wherein the
means for providing a flow of air comprises:
rotating vanes; and
means for rotating the vanes by fluid flow.

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24 (previously added). The system according to claim 23 wherein the magnet system has a vertical bore.

25 (previously added). The system according to claim 23 wherein the magnet system has a horizontal bore.

26 (previously added). The system according to claim 23 wherein rotating vanes are adjacent to one end of the magnet system

27 (new). A magnetic resonance imaging system comprising:
a magnet system having a space for positioning a subject therein;
means for acquiring a magnetic resonance signal;
means for providing a flow of circulating air into the space, the means being made from a non-magnetic or non-metallic material that avoids interference with the magnet system or the means for acquiring a magnetic resonance signal, the means providing circulating air flow externally to the subject at a temperature to cool the subject; and
means for adjusting the position of the subject in the magnet system.